



AI COMMUNITY CONFERENCE

Toronto, Canada
July 12, 2024

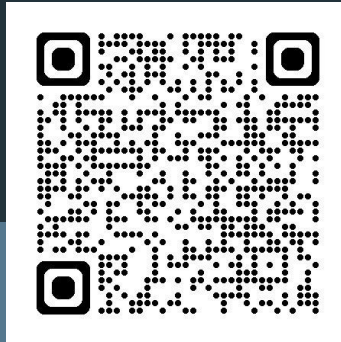
Azure AI Search
and Open AI

Peter Carson

#AICommunityConference  Microsoft

Peter Carson

- President, Extranet User Manager
- 13-time Microsoft M365 MVP
- peter@envisionit.com
- blog.petercarson.ca
- President, Toronto Microsoft 365 User Group

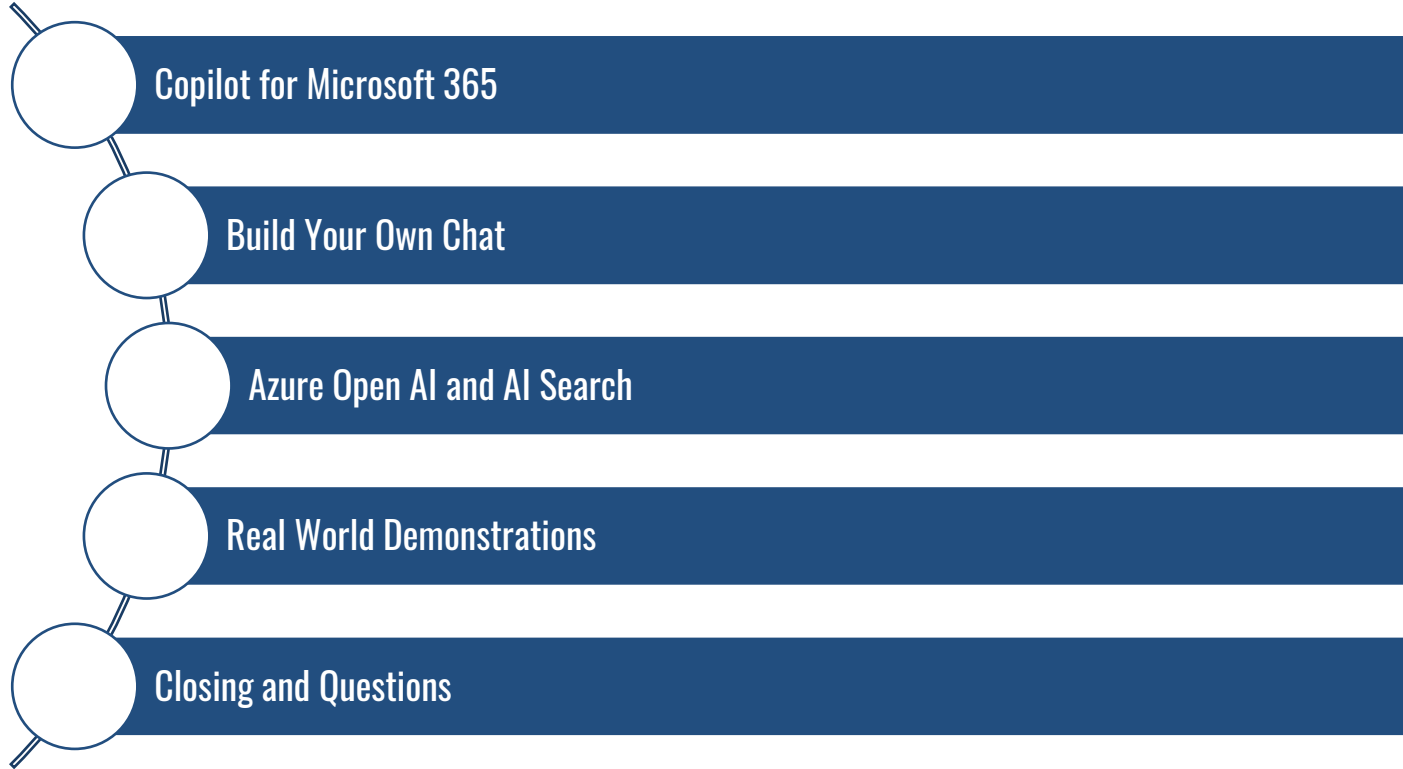


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Agenda




Copilot




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Copilot


For Microsoft 365

 **Follow up strong!**


Write a follow up email to `meeting` to drive continued progress.

 **Get calendar info**


When's my next meeting with `person` ?

 **Understand quickly**


Provide a comprehensive summary of my emails about [the FY24 Sales Report]

 **Decode acronyms**


What does [LLM] stand for?

 **Help me write**

Write an email to my team about our top priorities for next quarter from `file`

 **Prep for that meeting**

Help me prepare for `meeting`

 View prompts

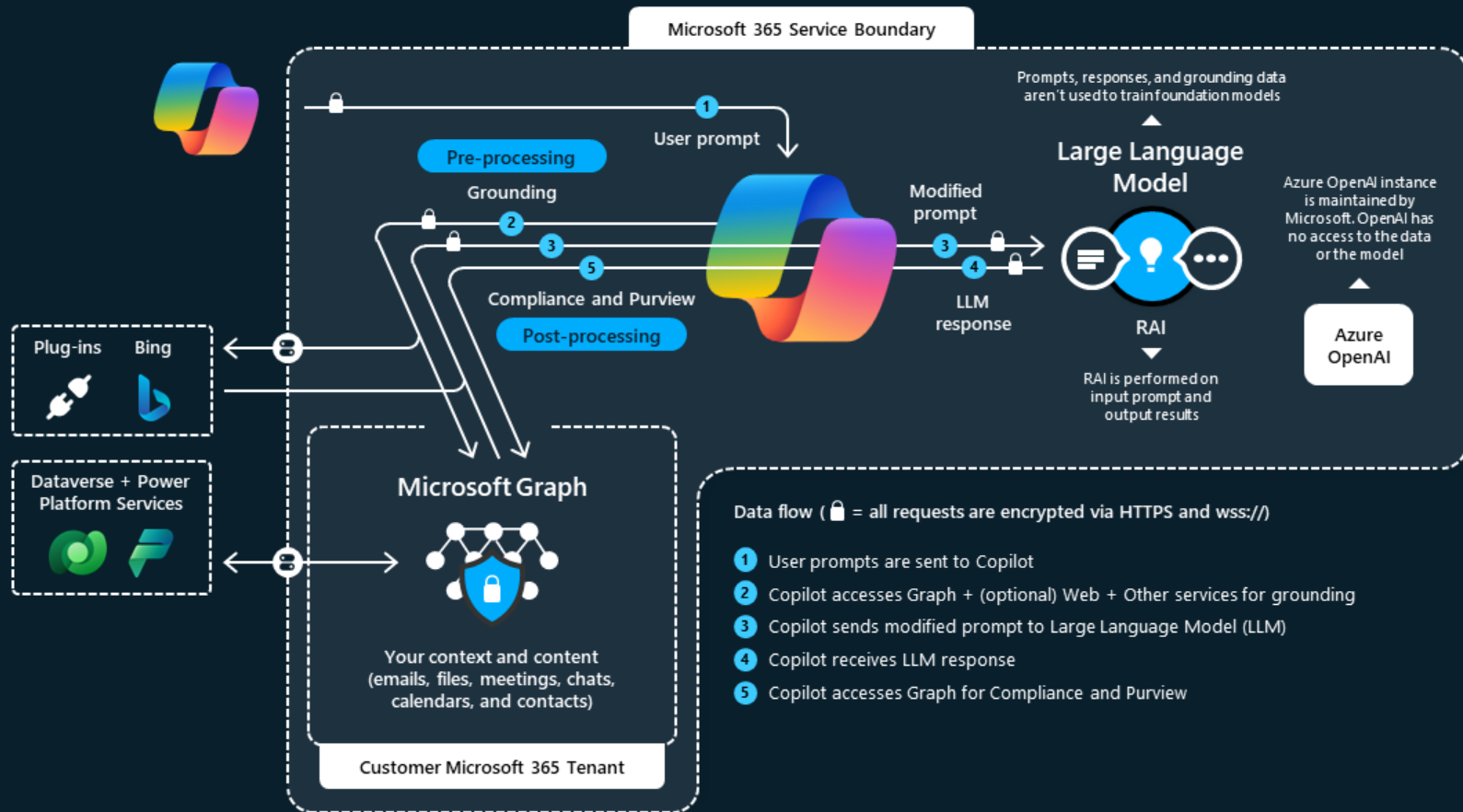
Use / to insert people, files and more

 Add people, files, and more for better results

0 / 2000

Microsoft Copilot for Microsoft 365 architecture



Build Your Own Chat



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Azure OpenAI



- [Azure OpenAI Service – Large Language Models for Generative AI \(microsoft.com\)](https://microsoft.com)
- Azure OpenAI service features offers REST API to GPT-4 and GPT-35
- Both language models co-develop their APIs, guaranteeing compatibility and easy transitions
- Azure OpenAI ensures the same security standards as Microsoft Azure
- Azure OpenAI offers private networking, regional availability, and responsible AI content filtering



Chat with our support team

How to search and book rentals?

[Ask now](#)

What is the refund policy?

[Ask now](#)

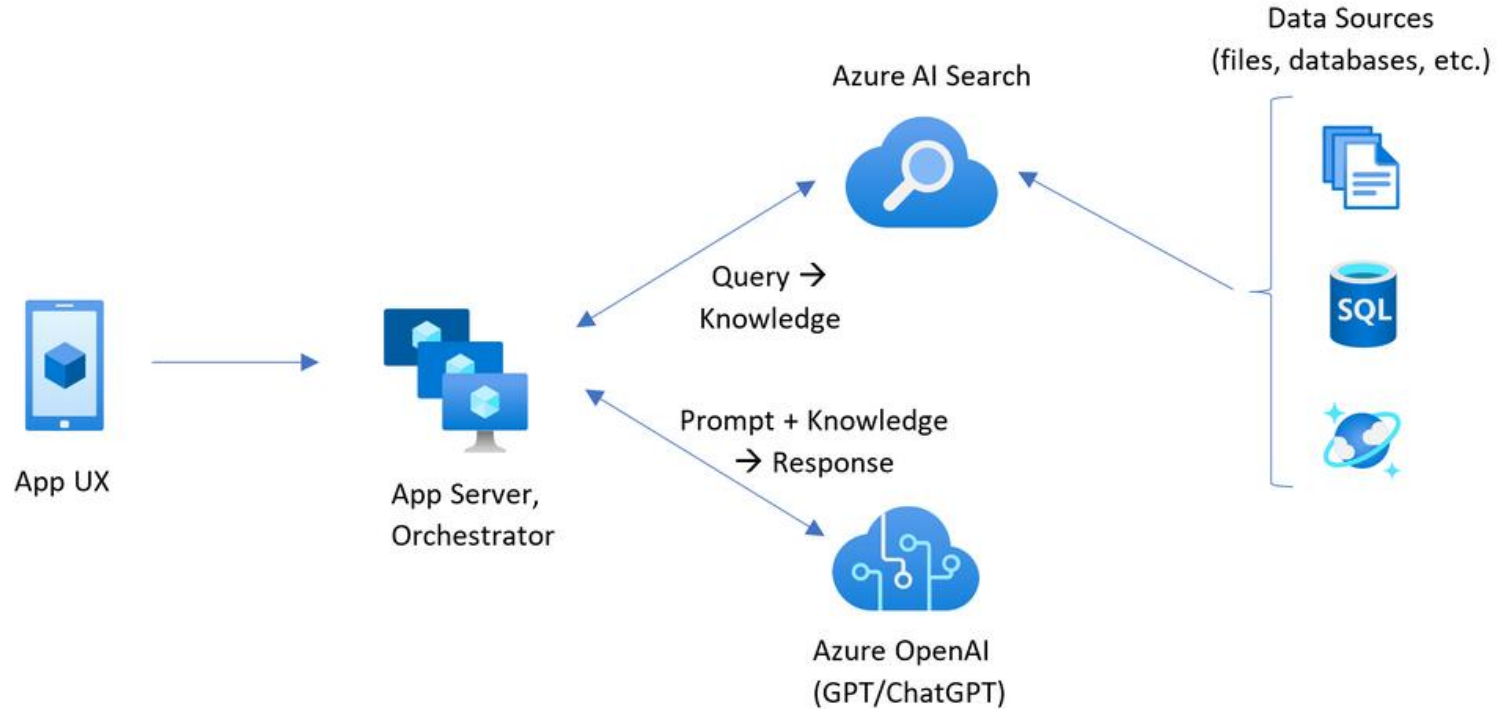
How to contact a representative?

[Ask now](#)

Type your question, eg. "How to search and book rentals?"

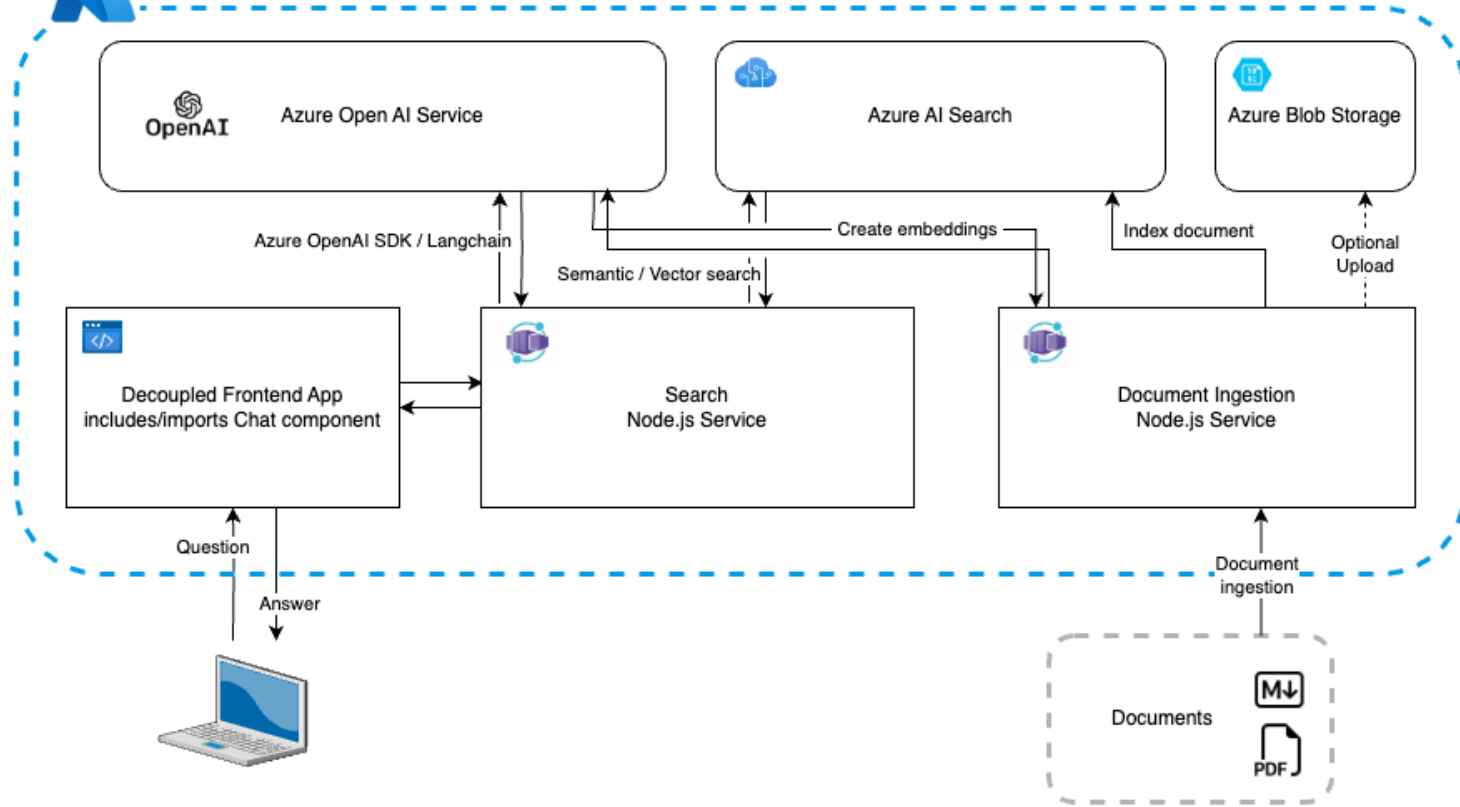


Architectural overview





ARCHITECTURE DIAGRAM



Pricing

[Azure OpenAI Service - Pricing | Microsoft Azure](#)

Priced and scaled by tokens and context

- 1 token \sim 4 chars in English
- 1 token \sim $\frac{3}{4}$ words
- 100 tokens \sim 75 words

Models	Context	Input (Per 1,000 tokens)	Output (Per 1,000 tokens)
GPT-3.5-Turbo-0125	16K	\$0.0007	\$0.0021
GPT-3.5-Turbo-Instruct	4K	\$0.0021	\$0.003
GPT-4	8K	\$0.042	\$0.083
GPT-4	32K	\$0.083	\$0.165

[Calculating Azure OpenAI Service Usage Costs: A Comprehensive Guide | by Oleksandr Krakovetskyi | The DevRain Tech Blog | Jul, 2023 | Medium](#)



Search 



Transitioning from Keyword to Semantic and Vector Search

Keyword Search: Direct matching of query terms to terms in documents or databases.

Use Cases: Early search engines, basic database queries.

Advantages: Simple, quick, easy to implement.

Limitations:

- Requires exact term matches
- Can yield irrelevant results if terms are out of context
- Can miss relevant documents if they don't use the exact terms





Semantic Search

Understands the meaning and intent behind user queries, rather than just matching keywords.

Use Cases: modern search engines, CMS, e-commerce recommendations.

Advantages:

- Relevant results
- Can answer queries instead of just returning files
- User-friendly with natural language queries

Limitations:

- Requires more sophisticated algorithms
- Potential for ambiguity in interpretation



Vector Search

Finds items in a dataset based on their similarity in meaning or context, rather than exact keyword matches.

Use Cases: advanced data retrieval systems, document clustering, and topic modelling.

Advantages:

- Relevant results
- Understands context, relationships between words
- Supports languages and terms with sparse data

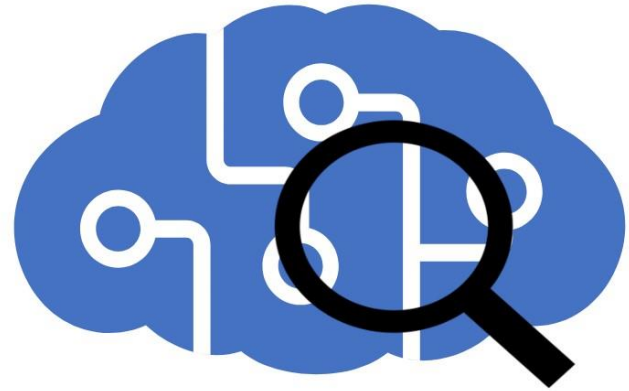
Limitations:

- Requires substantial computational power
- Vector models need training and refining



Azure AI Search

- Cloud service providing a full-text search engine, offering semantic and vector search capabilities
- Intended for developers needing application/based search experiences
- Benefits from vast data sources and AI-enhanced indexing

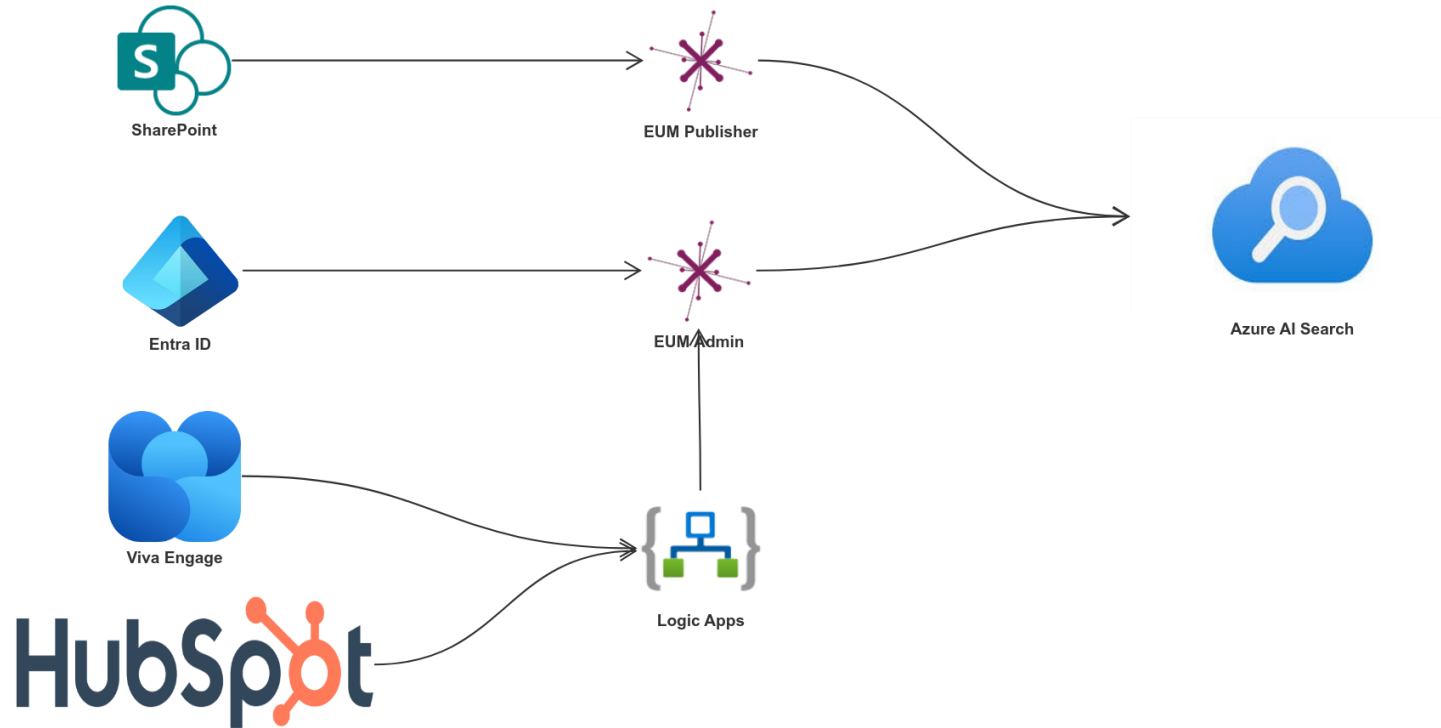


Azure AI Search Pricing

	Free	Basic	Standard S1	Standard S2	Standard S3	Storage Optimised L1	Storage Optimised L2
Storage ¹	50 MB	15 GB (max 45 GB per service)	160 GB (max 1.9 TB per service)	512 GB (max 6 TB per service)	1 TB (max 12 TB per service)	2 TB (max 24 TB per service)	4 TB (max 48 TB per service)
Max indexes per service	3	15	50	200	200 or 1,000/partition in high density mode	10	10
Scale out limits	N/A	Up to 9 units per service ² (max 3 partition; max 3 replicas)	Up to 36 units per service (max 12 partition; max 12 replicas)	Up to 36 units per service (max 12 partition; max 12 replicas)	Up to 36 units per service (max 12 partition; max 12 replicas) up to 3 partitions in high density ³ mode	Up to 36 units per service (max 12 partition; max 12 replicas)	Up to 36 units per service (max 12 partition; max 12 replicas)
Price per SU (Scale Unit)	\$0/hour	\$0.14/hour	\$0.47/hour	\$1.85/hour	\$3.69/hour	\$5.26/hour	\$10.52/hour



EUM AI Search Architecture



Azure AI Search Demo



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Articles

Enter a search term



[Best Practices in Secure File Sharing for Government](#)

Jun 27, 2024

In 2023, private data exposure incidents reached a record high, with 100 reported cases impacting a massive 15 million people. With government agencies handling vast amounts of sensitive information, safeguarding data from unauthorized access has become critical.



[EUM Sponsored Mercedes-Benz World Driving Experience](#)

Jun 26, 2024

EUM is giving away a half hour driving experience at Mercedes-Benz World in Weybridge, UK. The draw will take place at the end of Peter's Teams and Microsoft 365 Sharing - Unstructured and Structured session at 12:15 PM on June 27, 2024.



[What's Going on with Microsoft Delve?](#)

Jun 25, 2024



Home > Search > Search Snippet Builder

Search Snippet Builder

Snippet

Articles List Search Snippet ▼ 📄

Query

Template

Search

SearchText

Filter

EUMSearchSource eq 'Publisher Pages' and ContentType eq 'EUM Article' and search.in(SiteURL, '{currentSite}')

Select

Title, RelativeURL, RollupContent, RollupImage, PublishedDate1, SiteURL

OrderBy

PublishedDate1 desc

Size

JSON

Data Table

Preview

Fullscreen

Snippet



[Best Practices in Secure File Sharing for Government](#)

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[EUM Sponsored Mercedes-Benz World Driving Experience](#)

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[What's Going on with Microsoft Delve?](#)

June 25, 2024

Microsoft will be retiring the Delve web app as of December 2024. Read to find out why, how this may...

[Configuring Power Pages Entra ID B2B Authentication](#)



EUM Admin

- Home
- Reports
- Users
- Groups
- Admin**
- Email Templates

Search Explorer

Search

SearchText

Request Body

```
{
  "searchOptions": {
    "filter": "EUMSearchSource eq 'Publisher Pages'",
    "size": "10"
  },
  "select": [],
  "orderBy": []
}
```

JSON Data Table

```
{
  "totalCount": 899,
  "facets": {},
  "value": [
    {
      "score": 1,
      "highlights": null,
      "semanticSearch": {
        "rerankerScore": null,
        "captions": null
      },
      "document": {
        "id": "14626fa4-5c33-4a19-a3d6-5a647ca5205d-porta1dev",
        "company": null,
        "companyID": null,
        "partner": null,
        "partnerID": null,
        "status": null,
        "estimatedCloseDate": null,
        "guestCount": null,
        "installationPackage": null,
        "licenseTerm": null,
        "notes": null,
        "waitingon": null,

```

Support User Guide License valid until 2024-12-31 © 2024 Extranet User Manager - v7.1.1654.1























Home > About Us > Staff Directory

Staff Directory



















Found 25 results in 0.52 seconds

-  **Aron Silver**
Developer
-  **Alina Raza**
UI / UX Developer
-  **Amanda Da Costa**
Executive Assistant
-  **Amanda Diflorio**
Digital Marketing Specialist
-  **Anish Birju**
Developer
-  **Artur Pinheiro**
Developer
-  **Danish Raza**
Business Analyst
-  **Denesh Sohan**
Director of Engineering
-  **Devraj Banerjee**
Customer Success Specialist
-  **Don Harkness**
Chief Financial Officer
-  **Eman Abdeen**
Quality Assurance and Support Development
-  **Faye Yuan**
Senior Accountant
-  **Gurinderpal Dhillon**
Senior Developer
-  **Irina Kenic**
Marketing Specialist
-  **Jeff Clement**
Creative Director
-  **Joel Stickland**
Sales Development Representative
-  **Julian Mills**
VP Product and Marketing
-  **Kate Carson**
Developer
-  **Logan Guest**
VP Sales and Customer Success
-  **Maha Elkoshairi**
Senior Consultant



Service Areas

 Accounts Payable	 Building Permits and Inspections	 By-Law Enforcement	 Child Care
 Clerks	 Culture	 Customer Service	 Emergency Medical Services (EMS)
 Emergency Shelters	 Facilities	 Fire and Rescue Services	 Fleet
 General Government	 General Revenues	 Human Resources	 Information Technology

<https://mbncanada.ca>



Home > Search

Search

Filters

- All
- PDF
- Webpages

parking

✕

Found 353 results in 0.33 seconds

[e Parking App](#)

No coins?

[e Disputing a Parking Ticket](#)Quick Link for Dispute Forms: Request for Screening Officer Review Form Request for Hearing Officer Review Form Why are **Parking** Tickets issued?[e JMCC Parking Lot](#)JMCC **Parking** Lot at Malden Park Why was the **Parking** Lot Closed?[e Accessible Parking Permits and Veteran Plates](#)**Parking** privileges are available to those with a valid accessible **parking** permit or a veteran plate (Ontario poppy plate or other demarcation).[e Parking Officers Misconceptions](#)There are a lot of common misconceptions regarding the **Parking** Enforcement outside contractor, the Commissionaires of Ottawa - Windsor Division.[e 3-Day Parking Infraction and Trailers](#)What is a 3-day **parking** infraction?<https://www.citywindsor.ca>



Home > Speakers

Speakers

Enter a search term



Found 41 results in 0.54 seconds



Amit Vasu



Brad
Orluk

Brad Orluk



Brian Lalancette



Craig Lussier



Dave Healey



David Drever



Denis Molodtsov



Denzil Fernandes



Doug Davis



Doug Ferrier



<https://tm365.org>



Key Points

- Search is a key component of a chat experience
- Think about grounding and security
- There are many ways to do this within Microsoft
 - Copilot
 - Copilot Studio
 - Custom dev and Azure
- Azure AI Search is incredibly powerful



Resources

- [AI Community Conference - Toronto 2024 | Extranet User Manager](#)
- [Azure AI Search and Open AI Webinar | Extranet User Manager](#)
- [Get started with the chat using your own data sample for JavaScript - JavaScript on Azure | Microsoft Learn](#)
- [Azure AI Search documentation | Microsoft Learn](#)
- [Simple query syntax - Azure AI Search | Microsoft Learn](#)
- [Pricing - Azure AI Search | Microsoft Azure](#)
- [Azure OpenAI Service - Pricing | Microsoft Azure](#)



Speaker Evaluations

Please complete an evaluation for each session you are attending. This will help us in providing our speakers with valuable feedback. You will also increase your chances of winning a raffle prize



Upcoming Events

EUM Webinar

Teams and Microsoft 365 Sharing is Caring

In partnership with Essential Computing

Peter Carson
Principal, CSM
Office Apps & Services MVP

Charles Ross
Account Manager & Solution Specialist

July 18th, 2024
9:00-10:00 AM EDT & 2:00 - 3:00 PM BST
Online

ExtranetUserManager
essential

Webinar: Teams and Microsoft 365 Sharing is Caring

When: July 18th, 10-10:45AM EST

What: Microsoft 365 sharing scenarios, controlling access and rights with Entra ID and Microsoft Purview, leveraging custom and third-party options via the Graph API, and highlights use cases like learning portals, virtual data rooms, committees, meetings, dashboards, and reports.



Register now!



Thank you for attending

We hope to see you at one of our upcoming events



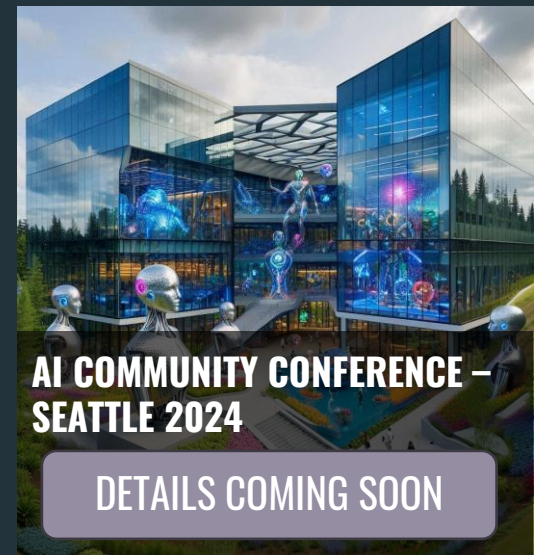
AI COMMUNITY CONFERENCE - DC
2024

📅 August 2, 2024
📍 Washington, DC
United States



AI COMMUNITY CONFERENCE -
VANCOUVER 2024

📅 October 11, 2024
📍 Vancouver, BC
Canada



AI COMMUNITY CONFERENCE -
SEATTLE 2024

DETAILS COMING SOON



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